

DERWENT-ACC-NO: 1976-E0059X

DERWENT-WEEK: 197618

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TITLE: Gas container quick evacuation method - uses
two control
valves and time programme

PRIORITY-DATA: 1975DD-0185879 (May 7, 1975)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
DD 118144 A	February 12, 1976	N/A
000 N/A		
DD 118144 B	November 30, 1988	N/A
000 N/A		

INT-CL (IPC): F04B037/14

ABSTRACTED-PUB-NO: DD 118144A

BASIC-ABSTRACT:

Method for the quick evacuation of small containers with volume less than 0.1 litres, or a number of such containers consecutively, from normal pressure to pressure of gas not solidifiable through liquid nitrogen between 5.10^{-1} Torr and 1.10^{-3} Torr, in a time of less than one second. With the aid of at least two normal control valves, (2, 3) in accordance with a time programme firstly 90 - 99% of the gas is pumped out of the container (1) at a pressure in excess of the required end pressure, and then the remaining 10 - 0.1% is quickly withdrawn by expansion. Only after closure of the container (1) until the time of the next evacuation can the gas be mainly pumped away from the expansion space at a pressure below the required end pressure of the container.

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Basic Abstract Text - ABTX (1):

Method for the quick evacuation of small containers with volume less than 0.1 litres, or a number of such containers consecutively, from normal pressure to pressure of gas not solidifiable through liquid nitrogen between 5.10^{-1} Torr and 1.10^{-3} Torr, in a time of less than one second. With the aid of at least two normal control valves, (2, 3) in accordance with a time programme firstly 90 - 99% of the gas is pumped out of the container (1) at a pressure in excess of the required end pressure, and then the remaining 10 - 0.1% is quickly withdrawn by expansion. Only after closure of the container (1) until the time of the next evacuation can the gas be mainly pumped away from the expansion space at a pressure below the required end pressure of the container.

Title - TIX (1):

Gas container quick evacuation method - uses two control valves and time programme